

Title (en)  
PROCESS FOR TREATING NATURAL GAS

Title (de)  
PROZESS ZUR BEHANDLUNG VON ERDGAS

Title (fr)  
UN PREDÉDÉ POUR TRAITER GAZ NATUREL

Publication  
**EP 2521761 B1 20151125 (EN)**

Application  
**EP 10795451 A 20101216**

Priority  
• GB 201000097 A 20100105  
• GB 2010052115 W 20101216

Abstract (en)  
[origin: WO2011083297A1] A process is described for treating a natural gas stream containing methane and one or more higher hydrocarbons comprising the steps of: (i) mixing at least a portion of the natural gas stream with steam, (ii) passing the mixture adiabatically over a supported precious metal reforming catalyst at an inlet temperature in the range 150-300 °C to generate a reformed gas mixture comprising methane, steam, carbon dioxide, carbon monoxide and hydrogen, (iii) cooling the reformed gas mixture to below the dew point to condense water and removing the condensate to provide a de-watered reformed gas mixture, and (iv) passing the de-watered reformed gas mixture through an acid gas recovery unit to remove carbon dioxide and at least a portion of the hydrogen and carbon monoxide, thereby generating a methane stream. The methane stream may be used as a fuel or liquefied for transportation or storage. Alternatively the methane stream may be used to adjust the composition of a natural gas stream, including a vapourised LNG stream, to meet pipeline specifications.

IPC 8 full level  
**C10L 3/08** (2006.01); **C10L 3/10** (2006.01)

CPC (source: EP KR US)  
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Cited by  
US11112175B2; US10451344B2; US10704832B2; WO2017200557A1; US10330382B2; US11365933B2; US11725879B2

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